Nika

PROJECT: GEAR5

Group 10

Team Leader:

Ralph Robes, N01410324

Members:

Elijah Tanimowo, N01433560 Francisco Santos, N01423860 Pradeep Singh, N00975892

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Our Project

Our project aims to create a retro gaming device that integrates the past and present in an all in one system that users can experience. This system can be played physically via console and wireless through our mobile app. Our app allows users to share/store information via the cloud and access virtual currency as tokens to play as if it were an arcade.

Student Names & IDs

Name	Id	Signature	Effort
Ralph Robes	N01410324	Ralph Robes	100%
Francisco Santos	N01423860	Francisco Santos	100%
Pradeep Singh	N00975892	Pradeep Singh	100%
Elijah Tanimowo	N01433560	Elijah Tanimowo	100%

Github Repo Link

https://github.com/RalphRobes0324/Nika.git

Credentials

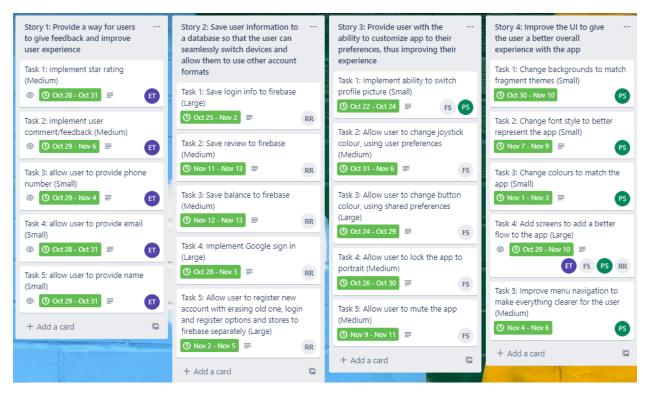
Username: admin Password: admin

Sprint

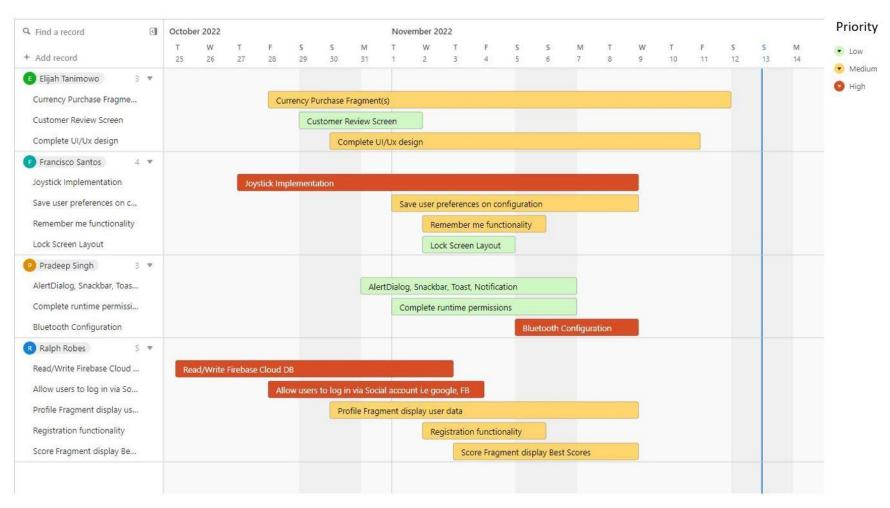
Sprint Goals

- Create a review page
- Allow the user to create and login to an account
- Allow the user to login with google
- Add joystick functionality
- Add functionality to the settings fragment so user can modify to their preferences
- Update our backgrounds
- Update the menus
- Add animations to the splash screen

Sprint Dashboard



Gantt Chart

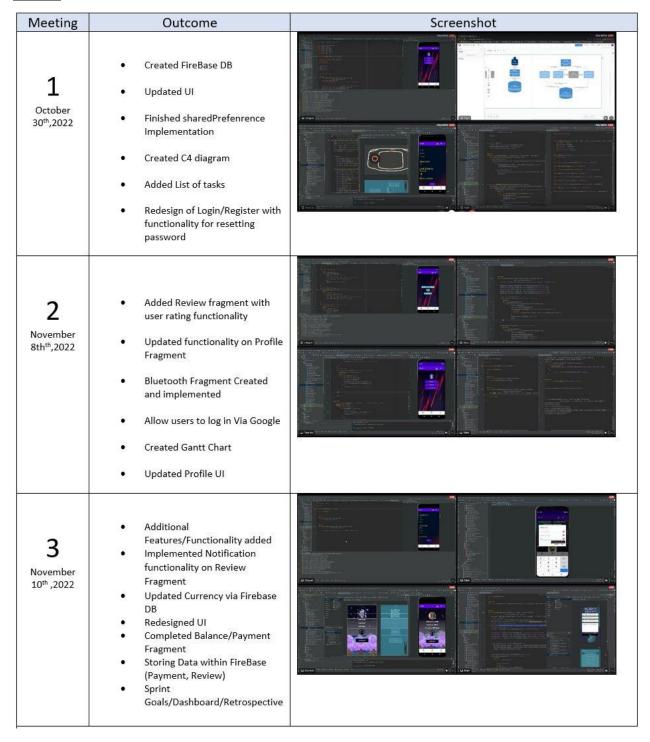


Tasks/Priority Status

	A Task	Assigned • • • •	O Priority •	III Start date ▼	III End date ▼	Status
1	Read/Write Firebase Cloud DB	R Ralph Robes	High	25 October, 2022	2 November, 2022	Done
2	Allow users to log in via Social account i.e google, FB	R Ralph Robes	High	28 October, 2022	3 November, 2022	Done
3	Joystick Implementation	Francisco Santos	High	27 October, 2022	8 November, 2022	Done
4	Bluetooth Configuration	Pradeep Singh	High	5 November, 2022	8 November, 2022	Done
5	Currency Purchase Fragment(s)	Elijah Tanimowo	Medium	28 October, 2022	11 November, 2022	Done
6	Complete UI/Ux design	Elijah Tanimowo	Medium	30 October, 2022	10 November, 2022	Done
7	Profile Fragment display user data	R Ralph Robes	Medium	30 October, 2022	8 November, 2022	Done
8	Score Fragment display Best Scores	R Ralph Robes	Medium	3 November, 2022	8 November, 2022	Done
9	Save user preferences on configuration	Francisco Santos	Medium	1 November, 2022	8 November, 2022	Done
10	Registration functionality	R Ralph Robes	Medium	2 November, 2022	5 November, 2022	Done
11	Remember me functionality	Francisco Santos	Medium	2 November, 2022	5 November, 2022	Done
12	AlertDialog, Snackbar, Toast, Notification	Pradeep Singh	Low	31 October, 2022	6 November, 2022	Done
13	Complete runtime permissions	Pradeep Singh	Low	1 November, 2022	6 November, 2022	Done
14	Lock Screen Layout	Francisco Santos	Low	2 November, 2022	4 November, 2022	Done
15	Customer Review Screen	E Elijah Tanimowo	Low	29 October, 2022	1 November, 2022	Done

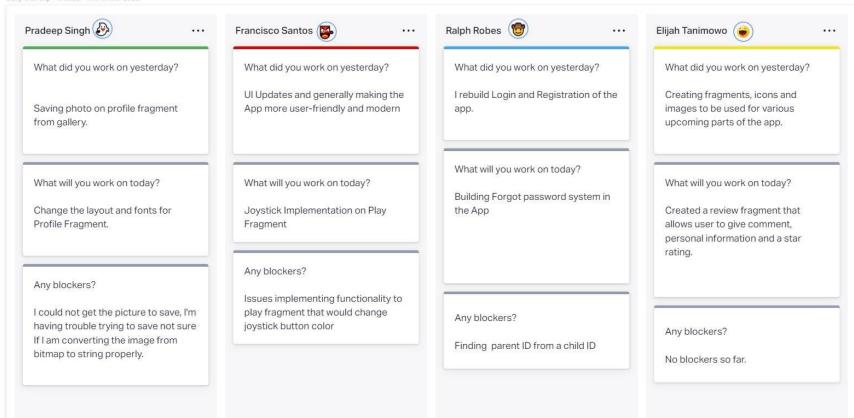
Daily Stand-up

Table



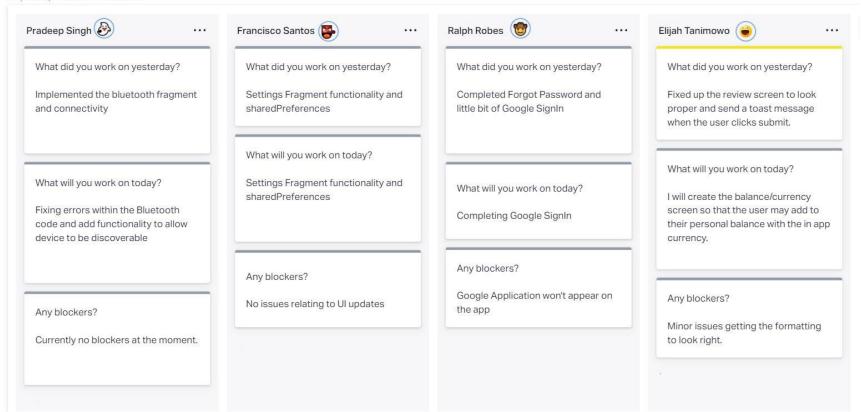
Daily Standup Sprint 1

Daily Standup - October - November 2022



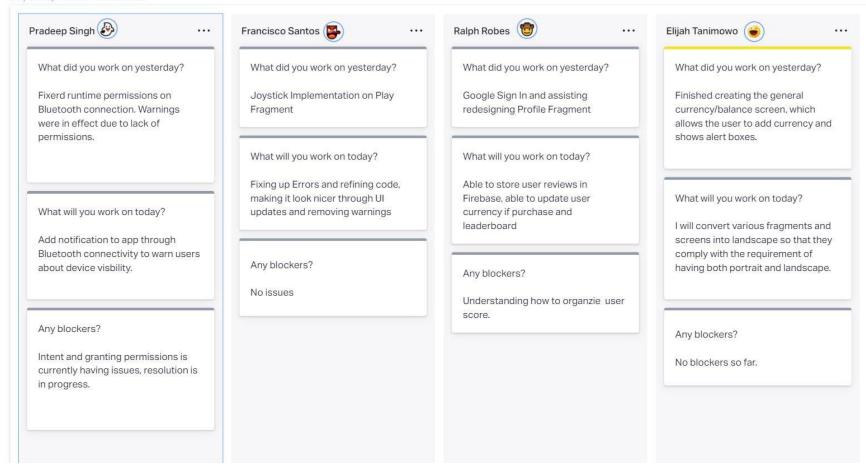
Daily Standup Sprint 2

Daily Standup - October - November 2022



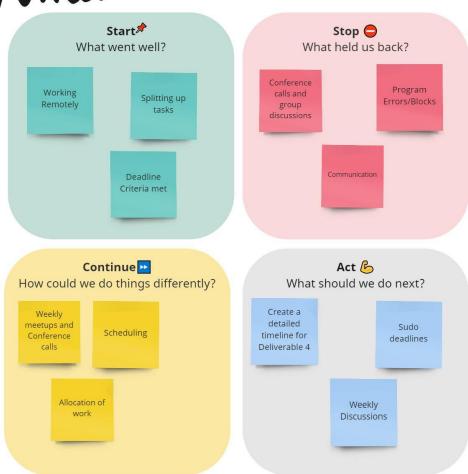
Daily Standup Sprint 3

Daily Standup - October - November 2022

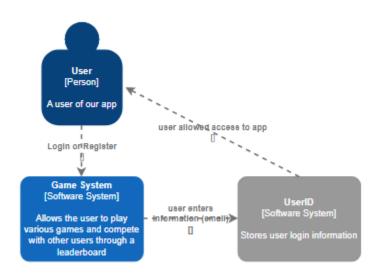


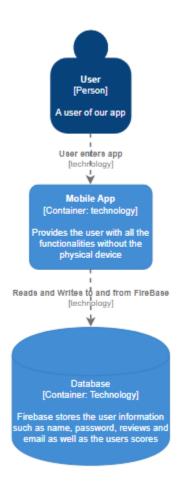
Sprint Retrospective

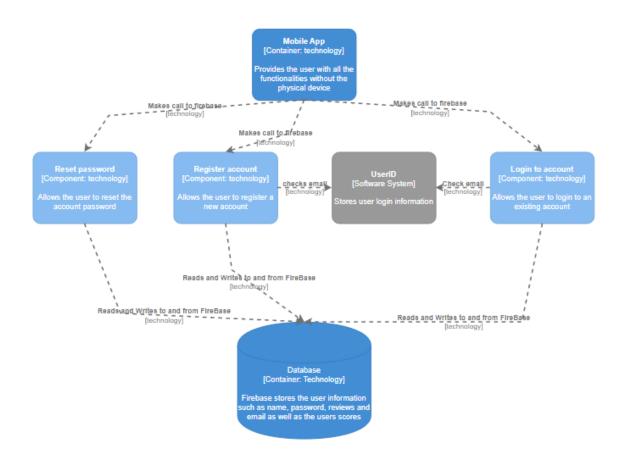


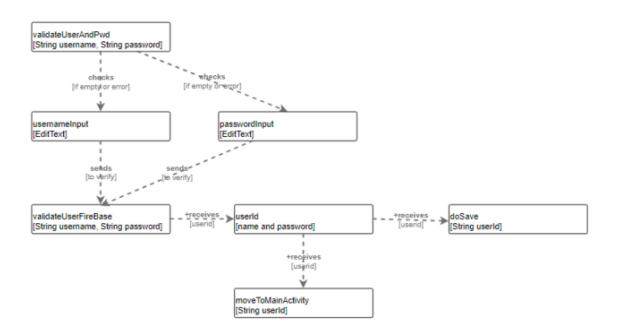


System Context Diagram (C4 Model)









Design

Principles

In our app we used two different design principles in order to make it more professional and overall better results. These principles are KISS(Keep it Simple and Stupid) and Single Responsibility. We utilized KISS as we are in a group of four and keeping everything as simple as possible makes it so we can work on coding that someone else started without being too confused about what they are trying to accomplish and what they have done so far. We also used Single Responsibility to keep everything organized. This is clearly displayed through our login/register pages, as we split it among multiple screens and fragments rather than having it all be in one giant fragment.

Design Patterns

In our app we used two different design patterns to add a natural flow and overall structure to our design. The two patterns we used were command design patterns and creational patterns for the builder, in which we had an alert dialog that gave the user some text along with a title, message, and option to click OK for example. We also made use of the command design pattern.

Coding Work Progress

Runtime Permission

```
<uses-permission android:name="android.permission.READ_EXTERNAL_STORAGE" />
<uses-permission android:name="android.permission.BLUETOOTH" />
<uses-permission android:name="android.permission.BLUETOOTH_ADMIN" />
<uses-permission android:name="android.permission.ACCESS_COARSE_LOCATION"/>
<uses-permission android:name="android.permission.BLUETOOTH_ADVERTISE" />
<uses-permission android:name="android.permission.BLUETOOTH_CONNECT" />
<uses-permission android:name="android.permission.BLUETOOTH_SCAN" />
<uses-permission android:name="android.permission.INTERNET" />
<uses-permission android:name="android.permission.CAMERA" />
```

Additional features/functionality added

Since Deliverable 2, the app has immensely changed. Additional features added since are listed below. We added FireBase implementation to our app, which gave us the ability to store and read information through a database. New fragments and classes such as Joystick, Bluetooth, and Review have been added since. New animations on the login screen along with the profile screen give additional depth and immersion. Additional features such as runtime permissions, notifications, saving login info, and google sign-in have all been implemented.

- Firebase Database
- Virtual Joystick configuration
- Bluetooth Connectivity
- Customer Review/Feedback
- Animations and GIFs
- Google Sign-in
- Shared Preferences
- New Fragments and Classes
- French Translations Updated

Customer Review Screen Storage

```
GEAR1
    overall: "100.0%"
    userComment: "I enjoy this game while sipping my pina colada at the beach. This app is bueno suave! ahh boujourno!!!"
    userEmail: "francesco@suave.com"
    userModel: "Android SDK built for x86"
    userName: "Francesco"
    userPhone: "555-555-555"
GEAR2
    overall: "100.0%"
    userComment: "vry nice"
    userModel: "Android SDK built for x86"
    userName: "Bikram"
adminGEAR1
    overall: "100.0%"
    userComment: "doo bee doo da doo bee doo da"
    userEmail: "Tri_stateArea@gmail.com"
    userModel: "sdk_gphone_x86"
    userName: "Agent P"
adminGEAR2
    overall: "100.0%"
    userComment: "I LOVE IT!!!! SO MUCH FUN!!!"
    userEmail: "FranSan_tos@hotmail.com"
    userModel: "sdk_gphone_x86"
    userName: "SantosMan"
    userPhone: "6476473130"
adminGEAR7
    overall: "100.0%"
    userComment: "good app:)"
    userEmail: "ralph@gmail.com"
    userModel: "sdk_gphone_x86"
    userName: "Ralph Robes"
```